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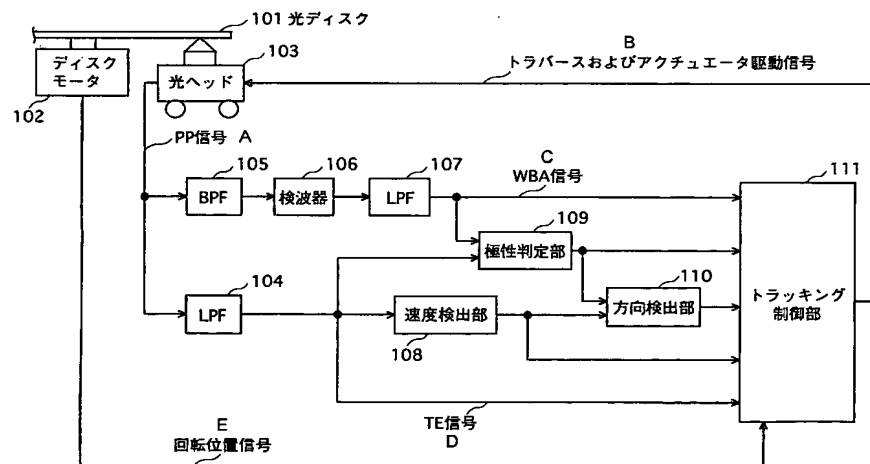
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(54) Title: OPTICAL DISC TRACKING CONTROL DEVICE, TRACKING CONTROL METHOD, AND TRACKING CONTROL PROGRAM

(54) 発明の名称: 光ディスクのトラッキング制御装置およびトラッキング制御方法並びにトラッキング制御プログラム



102...DISC MOTOR
101...OPTICAL DISC
103...OPTICAL HEAD
A...PP SIGNAL
B...TRAVERSE AND ACTUATOR DRIVE SIGNAL
106...DETECTOR
C...WBA SIGNAL

109...POLARITY JUDGMENT SECTION
111...TRACKING CONTROL SECTION
108...VELOCITY DETECTION SECTION
110...DIRECTION DETECTION SECTION
D...TE SIGNAL
E...ROTATION POSITION SIGNAL

(57) Abstract: An optical disc tracking control device capable of performing stable tracking. The device includes a signal detection section for detecting a tracking error signal and a wobble signal from a light spot, a velocity detection section for detecting a relative moving velocity of the light spot and the track, a polarity judgment section for judging that the light spot position is between grooves when the wobble signal amplitude value is equal to or below a predetermined value in the vicinity of the zero cross point of the tracking error signal, a moving direction detection section for

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ABSTRACT

A tracking control apparatus for stable tracking lead-in of an optical disc which has wobble grooves as tracks, including: a signal detection unit that detects tracking error and wobble signals from an optical spot; a speed detection unit that calculates a relative moving speed between the optical spot and the tracks; a polarity judgment unit that judges that the optical spot is on a land if a wobble signal amplitude value is equal to or lower than a predetermined value in the vicinity of a zero-cross point; a moving direction judgment unit that, when the relative moving speed is within a predetermined range and the optical spot is on a land, judges a moving direction of the optical spot from a rise/decay direction of the tracking error signal; and a control unit that performs a tracking lead-in by reducing the moving speed, based on the moving speed and moving direction.